



Australian Government

MEMSS00003 Non-Destructive Testing - Level 2 NDT practitioner

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Modification History

Release	Comments
1	This skill set was first released in MEM Manufacturing and Engineering Release 5.0.

Description

This Skill Set is intended to build on existing technical qualifications. It covers the skill and knowledge requirements that may lead to certification at Level 2 against AS ISO 9712 NDT – Qualification and certification of personnel or subsequent Standards. in one or more of the following NDT methods:

- penetrant testing
- magnetic particle testing
- eddy current testing
- ultrasonic testing
- advanced ultrasonic testing
- radiographic testing
- thermography testing
- visual testing.

The certifying body may impose additional requirements before an NDT practitioner can work in the field. Participants wishing to be certified against AS ISO 9712 – Level 2 should check full certification requirements with the Australian Institute for Non-Destructive Testing or other relevant bodies.

Pathways Information

Achievement of the skill set can provide credit towards the Certificate III in Engineering – Technical, the Diploma of Engineering – Technical and the Advanced Diploma of Engineering qualifications within the Manufacturing and Engineering Training Package.

Licensing/Regulatory Information

No licensing, legislative or certification requirements apply to this skill set at the time of publication.

Skill Set Requirements

Code	Title
MEM30007	Select common engineering materials
MEM16006	Organise and communicate information
MEM24036	Undertake visual testing to non-destructive testing standards
MEM13015	Work safely and effectively in manufacturing and engineering
MEM24022	Undertake penetrant tests
MEM24033	Undertake thermography tests
MEM24028	Undertake ultrasonic tests
MEM24024	Undertake magnetic particle tests
MEM13018	Work safely with ionizing radiation
MEM24039	Apply materials technology principles to non-destructive tests
MEM24026	Undertake eddy current tests
MEM24030	Undertake radiographic tests
MEM24037	Undertake advanced ultrasonic testing

Pre-requisite Requirements

Unit of competency	Prerequisite requirement
MEM16006 Organise and communicate information	MEM13015 Work safely and effectively in manufacturing and engineering
MEM24033 Undertake thermography tests	MEM16006 Organise and communicate information MEM30007 Select common engineering materials

	MEM24039 Apply materials technology principles to non-destructive tests MEM13015 Work safely and effectively in manufacturing and engineering
MEM24030 Undertake radiographic tests	MEM16006 Organise and communicate information MEM13018 Work safely with ionizing radiation MEM13015 Work safely and effectively in manufacturing and engineering
MEM24036 Undertake visual testing to non-destructive testing standards	MEM30007 Select common engineering materials MEM24039 Apply materials technology principles to non-destructive tests
MEM24039 Apply materials technology principles to non-destructive tests	MEM30007 Select common engineering materials
MEM24022 Undertake penetrant tests	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering
MEM24028 Undertake ultrasonic tests	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering
MEM24037 Undertake advanced ultrasonic testing	MEM16006 Organise and communicate information

	MEM30007 Select common engineering materials MEM24039 Apply materials technology principles to non-destructive tests MEM13015 Work safely and effectively in manufacturing and engineering MEM24028 Undertake ultrasonic tests
MEM24026 Undertake eddy current tests	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering
MEM24024 Undertake magnetic particle tests	MEM16006 Organise and communicate information MEM13015 Work safely and effectively in manufacturing and engineering

Target Group

This Skill Set is appropriate for personnel seeking to gain skills in NDT test methods at a level that may contribute to recognition as Level 2 in relevant technical standards such as AS ISO 9712 NDT – Qualification and certification of personnel or subsequent Standards. The target group includes existing NDT technicians, quality assurance inspectors, engineering technicians and para-professionals and other personnel required to conduct non-destructive testing of materials and components using a range of test methods.

Skill Set Mapping Information

Previous Code and Title	Equivalence
MEMSS00002 Non-Destructive Testing - Level 2 NDT practitioner	Equivalent

Suggested Words for Statement of Attainment

These units of competence are from the Manufacturing and Engineering Training Package and provide training that may meet the minimum skill and knowledge requirements for industry certification as a Level 2 NDT practitioner.

Links

Companion volumes, including implementation guides, are found on the national training register - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=45a7f1d5-61a5-447a-9688-7abbd7e1a5c7>.